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## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 97/00577

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	N. ENGL. J. MED. vol. 333, no. 18, November 1995, pages 1171-5, XP002040437 BOSMA P ET AL: "The genetic basis of reduced expression of bilirubin UDP glucuronosyltransferase 1 in Gilbert's syndrome"	1-11
Y	see the whole document	1-11
Y	PHARMACOKINETICS, vol. 2, no. 3, 1992, pages 93-108, XP002040438 OWENS I ET AL: "The novel bilirubin/phenol UDP-glucuronosyltransferase UGT1 gene locus: implications for multiple familial hyperrubinemia phenotypes" see the whole document	1-11

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☒ Further documents are listed in the continuation of box C.☒ Patent family members are linked in annex.

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"B" document member of the same patent family

Date of the actual completion of the international search

11 September 1997

Date of mailing of the international search report

01.10.97

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Osborne, H

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P, X	THE LANCET, vol. 347, 2 March 1996, pages 578-81, XP002040439 MONAGHAN G ET AL: "Genetic variation in bilirubin UDP-glucuronosyltransferase gene promoter and Gilbert's syndrome" cited in the application	1-11
Y	see the whole document	1-11
Y	WO 92 12987 A (US) 6 August 1992 see the whole document	1-11
X	GASTROENTEROLOGY, vol. 102, January 1992, pages 577-86, XP002040440 DE MORAIS S ET AL: "Decreased glucuronidation and increased bioactivation of acetaminophen in Gilbert's syndrome" cited in the application	1
Y	see abstract	2-11
X	MOLECULAR PHARMACOLOGY, vol. 43, no. 4, April 1993, pages 649-54, XP002040441 EBNER, T ET AL: "Human bilirubin UDP-gluconosyltransferase catalyzes the glucoronidation of ethinylestradiol" cited in the application	1
Y	see page 652 - page 653	2-11

information on parent family members

**PCT/GB 97/00577**

Form PCT/ISA/210 (patent family sheet) (July 1973)

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>P17218/RMC</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/GB 97/ 00577</b>	International filing date(day/month/year) <b>03/03/1997</b>	(Earliest) Priority Date (day/month/year) <b>01/03/1996</b>
Applicant <b>THE UNIVERSITY COURT OF THE UNIVERSITY OF ..et al.</b>		
<p>This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.</p> <p>This International Search Report consists of a total of <u>3</u> sheets. <input checked="" type="checkbox"/> It is also accompanied by a copy of each prior art document cited in this report.</p>		
<p>1. <input type="checkbox"/> Certain claims were found unsearchable (see Box I).</p> <p>2. <input type="checkbox"/> Unity of invention is lacking (see Box II).</p> <p>3. <input checked="" type="checkbox"/> The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international search was carried out on the basis of the sequence listing <input type="checkbox"/> filed with the international application. <input checked="" type="checkbox"/> furnished by the applicant separately from the international application, <input type="checkbox"/> but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed. <input type="checkbox"/> Transcribed by this Authority</p> <p>4. With regard to the title, <input checked="" type="checkbox"/> the text is approved as submitted by the applicant. <input type="checkbox"/> the text has been established by this Authority to read as follows:</p> <p>5. With regard to the abstract, <input checked="" type="checkbox"/> the text is approved as submitted by the applicant. <input type="checkbox"/> the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this International Search Report, submit comments to this Authority.</p> <p>6. The figure of the drawings to be published with the abstract is: Figure No. <input type="checkbox"/> as suggested by the applicant. <input checked="" type="checkbox"/> None of the figures. <input type="checkbox"/> because the applicant failed to suggest a figure. <input type="checkbox"/> because this figure better characterizes the invention.</p>		

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*indicates  
mutation.*

-/-

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"&amp;" document member of the same patent family

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Name and mailing address of the ISA  
European Patent Office, P.B. 3618 Patendaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Osborne, H

(Intern. Application No)  
 PCT/GB 97/00577

C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
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Y	--- genome sequence	1-11
Y	WO 92 12987 A (US) 6 August 1992 see the whole document not known how related to hyperbilirub. + Gilbert.	1-11
X	GASTROENTEROLOGY, vol. 102, January 1992, pages 577-86, XP002040440 DE MORAIS S ET AL: "Decreased glucuronidation and increased bioactivation of acetaminophen in Gilbert's syndrome" cited in the application see abstract suggests drug glucuronidation may be effective in drug administration.	1
Y	---	2-11
X	MOLECULAR PHARMACOLOGY, vol. 43, no. 4, April 1993, pages 649-54, XP002040441 EBNER, T ET AL: "Human bilirubin UDP-glucuronosyltransferase catalyzes the glucuronidation of ethinylestradiol" cited in the application see page 652 - page 653	1
Y	---	2-11
<p>① haven't defined population genetically</p> <p>② enzyme different - not bilirubin can't use theirs as test. ethically not allowed to be done pharmaceutical may work.</p>		

## INTERNATIONAL SEARCH REPORT

Information on patent family members

Intern. Application No

PCT/G8 97/00577

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9212987 A	06-08-92	AU 1227892 A	27-08-92